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HELENA, MONTANA 59601

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422 NORTH PARK AVENUE
HELENA, MONTANA 59601

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Vol. XIX, No. 12 4 **DECEMBER, 1971**

Production of crude oil and condensate from the oil and gas areas of Montana for the month of December, 1971 averaged 91,140 barrels daily, a decrease of 403 barrels from the average November, 1971 production of 91,543.

The nine refineries in the state processed 126,404 barrels of crude oil daily for the month of December, 1971, an increase of 11,454 barrels from the 114,950 barrels processed daily during the month of November, 1971.

During December, 52 wells were completed, 8 oil, 3 gas and 41 dry holes.

During December the commission issued 65 permits to drill new wells, a decrease of 10 from the 75 permits issued during November.

SUMMARY OF CRUDE PRODUCTION, REFINING, STORAGE, ETC., IN MONTANA

MONTH IF DECEMBER, 1971

IN STORAGE DECEMBER 1st	
By Producers	301,156
By Transporters	1,366,437
By Refiners	897,329
TOTAL STORAGE	2,564,922
Produced in Montana During Month	2,825,337
Imported During Month	3,197,597
TOTAL	8,587,856
DISPOSITION:	
Refined in Montana	3,918,541
Exported	2,450,691
Used for Fuel or Lost	5,272
TOTAL	6,374,504
IN STORAGE DECEMBER 31st	
By Producers	290,832
By Transporters	1,316,908
By Refiners	605,612
TOTAL STORAGE	2,213,352

NATURAL GAS WITHDRAWALS IN MONTANA

Month of December, 1971

Field	M. C. Ft.
Bell Creek	165,393
Big Coulee	163,756
Blackjack	60,069
Bowdoin	474,336
Bowes	34,116
Cabin Creek	96,370
Cedar Creek	1,372,342
Cut Bank (including Regan)	545,053
Dry Creek	57,159
Elk Basin	49,903
Flat Coulee	21,101
Gold Butte	— 0 —
Grandview	44,582
Hardin	1,297
Keith Block	166,124
Kevin Sunburst	53,342
Lake Basin	79,561
Middle Basin	3,466
Mt. Lilly	71,093
Pine	45,307
Plevna	10,057
Tiger Ridge—Squaw Coulee	179,265
Trail Creek	19,040
Utopia	68,055
Whitlash	77,282
Miscellaneous	242,810
TOTAL	4,100,879

Total Withdrawals for December, 1970 were 4,095,381.

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PRODUCERS' REPORT — MONTH OF DECEMBER, 1971

Leases	Field	No. of Wells	Storage First of Month	Oil Produced	Oil Shipped By: Pipeline	Oil Shipped By: Truck	Loss or Gain	Storage End of Month
3	Ask Creek	3	162	1,502	—	1,400	—	264
1	Bainville	1	2,673	1,723	—	1,708	—	2,688
4	Bear's Den	5	1,928	911	—	1,258	—	1,581
41	Bell Creek	313	31,160	493,360	499,736	—	97	24,687
—	Benrud	—	49	—	—	—	—	49
2	Benrud East	2	1,507	13,131	12,698	—	—	1,940
1	Benrud Northeast	1	1,054	1,974	2,408	—	—	620
1	Berthelote	1	277	56	—	—	—	333
6	Big Wall	17	1,924	5,755	5,441	—	—	2,238
4	Blackfoot	5	929	1,473	1,117	—	—	1,285
3	Border	3	1,660	319	—	570	—	1,409
1	Bowes	43	2,083	11,522	9,941	—	—	3,664
1	Bradley	1	256	589	414	—	—	431
1	Brady	1	—	102	—	—	—	102
4	Brorson-Madison	4	1,245	5,023	—	5,346	—	922
6	Brorson-Red River	6	4,732	12,850	—	13,119	—	4,463
3	Brorson-Red River South	3	2,277	12,200	—	12,928	—	1,549
7	Brush Lake	7	1,289	29,339	28,709	—	—	1,919
2	Cabin Creek	91	—	286,112	286,112	—	—	—
1	Canal	1	488	9,527	—	8,137	—	1,878
12	Cat Creek	54	3,034	17,668	16,864	943	—	2,895
—	Clark's Fork	—	185	—	—	179	—	6
1	Clark's Fork South	1	264	2,177	—	2,292	—	149
3	Conrad South	3	100	775	775	—	—	100
2	Cow Creek	2	254	1,172	—	1,223	—	203
1	Cow Creek East	2	632	17,193	—	17,347	—	478
1	Culbertson	1	380	1,227	—	1,022	—	585
6	Cupton	6	3,878	11,619	—	11,235	358	3,904
130	Cut Bank	888	54,432	423,129	423,310	—	—	54,251
—	Dean Dome	—	65	—	—	—	—	65
1	Deer Creek	1	713	1,302	1,313	—	—	702
1	Delphia	1	240	63	—	200	—	103
—	Devil's Basin	—	573	—	—	—	—	573
2	Dwyer	14	3,659	22,806	21,426	—	—	5,039
3	Elk Basin	45	906	136,926	136,955	—	—	877
5	Elk Basin Northwest	14	1,448	6,512	5,898	—	—	2,062
6	Fairview	11	7,405	35,224	17,718	16,672	—	8,239
2	Fertile Prairie	2	846	1,374	—	1,491	—	729
5	Flat Coulee	23	1,841	6,631	5,652	—	—	2,820
39	Flat Lake	52	5,005	47,479	48,291	—	166	4,027
6	Flat Lake South	6	752	8,717	8,648	—	—	821
1	Fort Gilbert	2	1,162	37,396	38,445	—	—	113
1	Frannie	1	—	2,635	2,635	—	—	—
9	Fred & George Creek	39	1,620	30,228	29,097	—	—	2,751
1	Gage	1	27	144	—	129	—	42
3	Gas City	17	9,201	20,055	20,079	4,769	—	4,408
2	Girard	2	1,431	2,796	—	3,164	—	1,063
11	Glendive	15	3,284	27,990	28,366	—	—	2,908
26	Goose Lake	34	4,298	33,289	33,558	—	102	3,927
9	Graben Coulee	18	3,818	3,140	562	1,803	50	4,543
—	Gypsy Basin	—	944	—	—	—	—	944
1	Hay Creek-Mission Canyon	1	126	1,470	1,563	—	—	33
2	Hay Creek-Red River	2	1,266	13,831	14,776	—	—	321
4	Hiawatha	4	2,087	6, 858	6,940	—	—	2,005
1	Hibbard	1	472	—	—	—	—	472
1	Injun Creek	1	262	343	—	—	—	605
6	Ivanhoe	12	1,509	4,825	4,468	—	—	1,866
5	Jim Coulee	5	2,291	13,434	14,383	—	—	1,342
4	Keg Coulee	17	3,204	12,807	12,224	—	—	3,787
2	Keg Coulee North	2	771	413	853	—	—	331
1	Kelley	4	304	5,003	4,797	—	—	510
62	Kevin Sunburst	371	6,198	20,137	16,582	2,637	—	7,116
8	Laird Creek	10	457	3,138	—	2,903	—	692
3	Leary	3	1,626	3,665	—	4,314	12	965
1	Little Beaver	23	—	35,989	35,989	—	—	—
2	Little Beaver East *	2	2,801	14,542	15,195	—	—	2,148
1	Little Wall Creek	1	549	3,105	2,895	—	33	726
2	Lodge Grass	2	343	2,997	—	2,027	—	1,313
3	Lonetree Creek	3	1,943	28,357	—	28,448	—	1,852
3	Lookout Butte (Coral Creek)	32	1,566	68,779	69 265	—	—	1,080
2	Mason Lake	2	478	325	339	—	—	464
2	Melstone	3	466	2,078	1,928	—	—	616
1	Mineral Bench	1	423	466	406	—	—	483
1	Miner's Coulee	1	107	256	—	256	—	107
11	Monarch	14	4,392	16,879	13,425	3,865	—	3,981
2	Mosser	2	—	346	—	346	—	—
2	Otis Creek	2	493	4,652	—	3,885	—	1,260
5	Outlook	8	9,352	11,766	16,573	—	—	4,545
1	Outlook South	1	1,623	1.137	1,972	—	—	788
2	Outlook West	2	2,407	3,516	4,708	—	—	1,215
1	Pennel-Lookout Butte	112	—	148,654	148,654	—	—	—
4	Pine	11	16,967	251,562	252,190	—	—	16,339
53	Pondera	251	3,640	21,802	21,624	—	—	3,818
1	Pondera Coulee	1	—	737	737	—	—	—
8	Poplar	66	9,115	47,890	48,436	—	—	8,569
2	Poplar Northwest	2	1,638	1,071	596	—	—	2,113
—	Prairie Elk	—	1,535	—	—	—	—	1,535
3	Pritchard Creek	3	167	1,042	1,042	—	—	167
1	Putnam	1	885	5,966	—	6,408	—	443
4	Ragged Point	12	2,246	5,913	5,740	—	—	2,419
2	Rattlesnake Coulee	2	880	420	880	—	—	420
2	Reagan	43	318	18,882	18,879	—	—	321
1	Red Creek	20	—	14,311	14,311	—	—	—
1	Red Fox	1	182	664	655	—	—	191
1	Redstone	1	277	1,927	1,795	—	—	409
1	Repeat	1	320	1,549	—	1,364	—	505
4	Reserve	4	—	8,359	8,359	—	—	—
1	Richey	1	755	118	634	—	—	239
1	Richey Southwest	6	478	3,232	—	3,112	—	598
—	Rough Creek	—	266	—	—	—	266	—
1	Rush Mountain	1	945	2.849	3,140	—	—	654
2	Salt Lake	3	346	4,177	—	4,041	—	482
4	Sand Creek	6	1,402	4,483	4,008	—	—	1,877
—	Shotgun Creek	—	248	—	—	—	248	—
1	Snyder	4	298	765	—	188	—	875
7	Soap Creek	18	2,945	3.835	—	3,840	—	2,940
1	Spring Lake	2	1,492	2,405	—	2,612	—	1,285
1	Stensvad	3	3,503	29,696	30,106	—	—	3,093
13	Sumatra	71	10,349	79,382	77,025	—	—	12,706
5	Tule Creek	6	2,348	25.370	—	24,574	—	3,144
2	Tule Creek East	2	1,027	7,612	—	8,077	—	562
2	Tule Creek South	3	980	3,670	—	3,792	—	858
2	Vida	2	479	790	—	818	—	451
4	Volt	5	2,015	11,905	12,413	—	—	1,507
2	Weed Creek	2	434	1,971	1,938	—	5	462
3	Weldon	3	783	12,159	12,353	—	—	589
1	West Butte	1	—	2,526	—	2,526	—	—
19	Whitlash	40	6,446	10,651	9,647	—	—	7,450
1	Whitlash West	1	527	158	212	—	—	473
4	Willow Creek North	4	556	2,812	2,536	—	—	832
2	Wills Creek South	2	—	2,977	2,977	—	—	—
5	Wolf Springs	7	3,017	4,137	3,744	—	—	3,410
2	Woodrow	2	413	1,850	1,556	—	—	707
5	Wright Creek	5	1,657	2,493	1,485	—	—	2,665
—	Wildcat, Blaine Cty	—	157	—	—	—	—	157
—	Wildcat, Carbon Cty	—	310	—	—	—	—	310
1	Wildcat, Daniels Cty	1	294	918	—	882	—	330
2	Wildcat, Glacier Cty	5	1,694	847	878	—	—	1,663
—	Wildcat, Liberty Cty	—	396	—	—	—	—	396
1	Wildcat, McCone Cty	1	362	496	—	400	—	458
—	Wildcat, Richland Cty	—	68	—	—	—	—	68
1	Wildcat, Roosevelt Cty	1	390	1,847	—	1,867	—	370
1	Wildcat, Toole Cty	1	—	208	208	—	—	—
708	TOTAL	3,035	301,156	2,825,337	2,614,207	220,117	1,337	290,832

Total Oil Produced and Shipped from Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1970	37,878,697	103,777	37,825,275	103,705
First Quarter, 1971	8,927,663	99,196	8,923,130	99,146
Second Quarter, 1971	8,684,548	95,435	8,715,304	95,773
Third Quarter, 1971	8,589,276	93,362	8,603,292	93,514
October, 1971	2,825,603	94,187	2,807,434	93,581
November, 1971	2,746,296	91,543	2,740,194	91,340
December, 1971	2,825,337	91,140	2,834,324	91,430

Oil In Storage	In Producers Field Tanks	In Transporters Storgae	In Refiners Storage ‡	Total Oil in Storage ‡
December, 1970	336,076	1,501,692	1,002,035	2,839,803
March, 1971	334,585	1,128,200	766,138	2,228,923
June, 1971	300,381	1,375,187	1,097,959	2,773,527
September, 1971	277,690	1,265,123	782,940	2,325,753
October, 1971	296,403	1,336,028	857,911	2,490,342
November, 1971	301,156	1,366,437	897,329	2,564,922
December, 1971	290,832	1,316,908	605,612	2,213,352

* Montana Oil Only
‡ Includes Wyoming Oil

TRANSPORTERS' MONTHLY REPORT — MONTH OF DECEMBER, 1971

	Storage First of Month	Oil Received By			Loss or (Gain)	Oil Shipped To			Storge End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—									
Western Crude Oil, Inc.			1,400				1,400		
BAINVILLE—									
Rock Island Oil & Ref. Co.			1,708				1,708		
BEAR'S DEN—Truck			1,258				1,258		
BELL CREEK—Pipeline	44,745	499,736					268,027	215,245	61,209
BIG WALL—									
Continental Pipeline Co.		5,441				5,441			
BLACKFOOT—									
Camerland Cardinal Corp.		1,117						1,117	
BORDER—Permian Corp.			570					570	
BOWES—Texaco Inc.		9,941				9,941			
BRORSON-MADISON, BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			31,393					31,393	
BRUSH LAKE—									
Portal Pipeline Co.		28,713					28,713		
CABIN CREEK & OTHERS*—									
Butte Pipeline Co.	339,289	716,095	56,879	681,330			1,439,971		353,622
Shell Pipeline Co.	7,752	286,101			(3,540)			293,818	3,575
	347,041	1,002,196	56,879	681,330	(3,540)		1,439,971	293,818	357,197
CANAL—									
Rock Island Oil & Ref. Co.			8,137				8,137		
CAT CREEK—									
Continental Pipeline Co. & Truck		16,864	943			17,807			
CLARK'S FORK AND CLARK'S FORK SOUTH—									
Permian Corp.			2,471				2,471		
COW CREEK & COW CREEK EAST—									
Western Crude Oil, Inc.			18,570				18,570		
CULBERTSON—									
Spruce Oil Co.			1,022				1,022		
CUT BANK—									
Continental Pipeline Co.			8,348	489,847				498,195	
Phillips Petroleum Co.	49,800	172,473		9,359	1,831	162,043		30,001	37,757
Texas Pipeline Co.	14,708	46,559		65,591	268			110,761	15,829
Union Oil Co.	40,411	56,425			(217)	51,041			46,012
Western Oil Trans. Co.		43,921						43,921	
Western Oil Trans. Co. (Moulton)		107,200						107,200	
	104,919	426,578	8,348	564,797	1,882	213,084		790,078	99,598
DELPHIA—Truck			200			200			
DWYER—Portal Pipeline Co.		21,566					21,566		
ELK BASIN & ELK BASIN NORTHWEST—Marathon Pipeline		142,650				142,650			
FAIRVIEW—									
Fairview Pipeline Co.		17,718					17,718		
Rock Island Oil & Ref. Co.			16,672				16,672		
		17,718	16,672				34,390		
FLAT COULEE—									
Camerland Cardinal Corp.		5,281				5,281			
FLAT LAKE & FLAT LAKE SOUTH—									
Portal Pipeline Co.		51,284					51,284		
FT. GILBERT—									
Fairview Pipeline Co.		38,445					38,445		
FRANNIE—Interstate Pipeline Co.		2,635					2,635		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	14,755	29,576				25,261		12,227	6,843
GAGE—Truck			129			129			
GIRARD—									
Rock Island Oil & Ref. Co.			3,164				3,164		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipeline Co.	6,865	27,634			314			28,607	5,578
GOOSE LAKE—									
Portal Pipeline Co.		29,742					29,742		
HAY CREEK—									
Fairview Pipeline Co.		16,339					16,339		
HIAWATHA—									
Continental Pipeline Co.		6,941					6,941		
IVANHOE—									
Continental Pipeline Co.		4,468				4,468			
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		13,077				13,077			
KELLEY—									
Continental Oil Co.		4,797				4,797			
KEVIN SUNBURST—									
Big West Oil Co.	7,153	14,500				14,500			7,153
Homestake Oil & Gas Co.	4,946	2,570			1,304	3,363			2,849
Texas Pipeline Co.	5,950	8,242			128				14,064
	18,049	25,312			1,432	17,863			24,066
LEARY—Permian Corp.			4,314				4,314		
LODGE GRASS—Permian Corp.			2,027			2,027			
MASON LAKE—									
Continental Pipeline Co.		339				339			
MELSTONE—									
Continental Oil Co.		1,785				1,785			
MIDDLE WALL**—									
Continental Popeline Co.		9,853						9,853	
MOSSER—Permian Corp.			346				346		
OTIS CREEK—									
Western Crude Oil, Inc.			3,885				3,885		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		22,683					22,683		
PONDERA—									
Phillips Petroleum Co.	25,822	22,187			197	17,459			30,353
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE,									
East Poplar Gathering System	16,283	72,406			(340)			67,372 ‡	21,657
PUTNAM—									
Western Crude Oil, Inc.			6,408				6,408		
RAGGED POINT—									
Continental Pipeline Co.		5,741				5,741			
RED CREEK—									
Western Oil Transportation Co		14,720						14,720	
RESERVE—Portal Pipeline Co.		8,174					8,174		
RUSH MOUNTAIN—									
Sinclair Refining Co.		3,140					3,140		
SALT LAKE—									
Rock Island Oil & Ref. Co.			4,041				4,041		
SNYDER—Permian Corp.			188			188			
SOAP CREEK—Permian Corp.			3,840				3,840		
SPRING LAKE—									
Rock Island Oil & Ref. Co.			2,612				2,612		
SUMATRA & STENSVAD—									
Continental Pipeline Co.	785,272	108,993		2,333,092	3,446	97,565		2,419,727	706,619
TULE CREEK—									
Spruce Oil Co.	2,686		32,651			31,549			3,788
Permian Corp.			3,792			3,792			
	2,686		36,443			35,341			3,788
WEED CREEK & WOLF SPRINGS									
Continental Pipeline Co.		5,681				5,681			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.		10,544				9,359		1,185	
WILDCAT WELLS—Truck			3,149				3,149		
TOTAL	1,336,437	2,714,297	220,117	3,579,219	3,391	635,484	2,038,375	3,885,912	1,316,908

* Cabin Creek, Cupton, Fertile Prairie, Gas City, Monarch, Repeat, Richey, Richey Southwest, Vida, Weldon and Wills Creek South
** Jim Coulee, Little Wall Creek and Willow Creek North
‡ Transferred to Butte Pipeline Company

BARRELS IF CRUDE OIL REFINED IN MONTANA
MONTH OF DECEMBER, 1971

Field	Big West Oil Co.	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Spruce Oil Co.	Westco Ref. Co.	Total
Big Wall		5,441								5,441
Cat Creek		2,281		31,266		613				34,160
Cut Bank							156,570		108,010	264,580
Delphia						69				69
Elk Basin		54,400		45,499	42,752					142,651
Flat Coulee									5,281	5,281
Fred & George Creek	25,261									25,261
Gage & Gage Southwest						26				26
Hibbard						98				98
Ivanhoe		4,468								4,468
Keg Coulee		4,452		8,625						13,077
Kelley					4,797					4,797
Kevin Sunburst	17,863									17,863
Lodge Grass		2,027								2,027
Mason Lake		339								339
Melstone				1,785						1,785
Pondera							13,400			13,400
Ragged Point				5,741						5,741
Snyder		188								188
Sumatra & Stensvad		21,004		46,455	30,106					97,565
Tule Creek								67,128		67,128
Weed Creek					1,938					1,938
Whitlash							9,317			9,317
Wolf Springs					3,744					3,744
Total Montana Oil	43,124	94,600		139,371	83,337	806	179,287	67,128	113,291	720,944
Canadian Oil Imported		476,171		201,687	173,824					851,682
Wyoming Oil Iimported		855,409		460,907	1,029,599					2,345,915
Total Montana, Canadian and Wyoming Oil	43,124	1,426,180		801,965	1,286,760	806	179,287	67,128	113,291	3,918,541

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1970	24,878	25,744	65,351	115,973
December, 1970	24,619	38,766	59,493	122,878
December, 1971	23,256	27,473	75,675	126,404

PERCENTAGE OL CRUDE OIL REFINED

Montana	Canada	Wyoming
21.45%	22.20%	56.35%
20.04%	31.55%	48.41%
18.40%	21.73%	59.87%